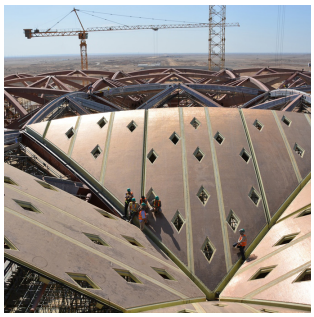
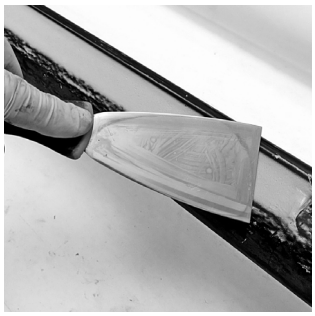
resoltech 8050L

Hardener 8059

Ultra fast epoxy filler in cartridge





- Can be sanded after 30min
- Density : 0.79
- CMR components and solvent free
- Railway, marine, construction application
- Cartridge for use with a standard 2K 400mL 1:1 handgun

INTRODUCTION

RESOLTECH 8050L / 8059 is a **ultra fast curing and easy sanding filler**. It is a premium choice to substitute polyesters filler.

Due to its very **fast curing** characteristics it is best to **use in cartridges** and it is particularly suitable for fast repairs of cracks in mould, finishing of small surface defects, caulking between assembly elements...

It is **compatible with all substrate** as wood, steel, aluminium and composites.

The specially formulated lightweight epoxy filler may be applied in up to 5 mm on a vertical surface and 10 mm on a horizontal surface in one coat and shows minimal shrinkage upon curing unlike polyurethane or polyester based products.
Once hardened, the 8050L / 8059 filler offers a **watertight and impact resistant** behaviour. Its Shore 70 D hardness will enable to resist well to vibrations.

The formulation of the 8050L / 8059 will help improve health and safety for the workers and follows the latest EU regulation (CE) n°453/2010 and **does not contain any CMR materials and solvent**.

When sanded, the surface of this system is smooth enough to be directly overcoated with RESOLCOAT 3010T / 3014T high build epoxy primer and is **compatible with all paints & primers**.

MIXING RATIO

The mixing ratio must be accurately followed. It is not possible to change the ratio, it would result in lower mechanical properties. The mixture should be thoroughly stirred to ensure full homogeneity.

System	8050L/8059
Mixing ratio by weight	1 / 1
Mixing ratio by volume	

APPLICATION

- 8050L / 8059 is only available in cartridge two components. It is possible to use a cartridge in several times if there are several static mixer per cartridge (on demand).
- It is recommended to use products at a temperature close to 18-25°C in order to facilitate the mixing and the application.
- Lower temperatures will increase the viscosity of the mixture and the gel time, but the resin will not crystallize at low temperatures.
- On the contrary, a higher temperature will reduce the viscosity of the mixture as well as the pot life.

Surface preparation :

As general rule: all substrates must be sanded, cleaned and dried.

- On previously painted surfaces : clean thoroughly to degrease the surface and sand with 80-100 grade paper or remove all previous coatings if in poor condition and prime the substrate.
- Steel : prime with ANTICO PRIMER A + B in order to offer a good anticorrosion base.
- Aluminum: it is recommended to either follow an etching/passivation process..
- Wood: Prime stable constructions only, with RESOLCOAT 1010 / 1014.
- GRP: For osmosis treatment, prime the sanded fibre with 1020L / 102xL in order to waterproof the substrate and lightly sand/deglaze before application of filler 8050L / 8059.
- BARE GRP/COMPOSITE: Remove surface wax/mould release agent with degreaser, sand with 80-100 grade paper. Sand between layer of expoy filler 8050L / 8059 with 80-100 grade paper to ensure a good mechanical adhesion.

Overcoating:

RESOLTECH 8050L / 8059 may be overcoated with itself. RESOLCOAT 3010T / 3014T can be apply on the filler sanded and cleaned beforehand.

Warning: It is recommanded to do validation tests before industrial application.

Application coverage vs thickness :

Coverage will depend on the thickness needed to profile. The following table indicates the average consumption vs thickness.

Thickness	Consumption
1 mm	0.79 kg/m²
5 mm	3.95 kg/m²
10 mm	7.9 kg/m²

PHYSICAL CHARACTERISTICS

1 Visual aspect

8050L :
Orange paste

8059 :
Light white paste

Mix :
Light orange paste

2 Density

References	8050L	8059
Density at 23°C	0.80	0.78
Mix density at 23°C	0.79	

ISO 1675, ± 0.05 tolerance

REACTIVITIES

Potlife, sanding & overcoating (on thickness of 2 mm)

	Potlife	Can be sanded after	Overcoating*
at 10°C	5 min	45 min	1h15
at 23°C	3 min	30 min	45 min
at 30°C	1 min	20 min	30 min

*After sanding

RETICULATION & POST-CURING

Shore D hardness after:	8050L/8059
25 min at 23°C	65
24h at 23°C	70

ISO 868

MECHANICAL PROPERTIES

System		8050L/8059
14 days at 23°C	FLEXION Module Contrainte maximale Allongement à contrainte maximale Allongement à la rupture	 1.05 GPa 13.0 MPa 1.37% 1.37%

ISO 178

PACKAGING

Cartridge bi-components : 2 x 200mL

TRANSPORT & STORAGE

Keep containers sealed and away from heat and cold preferably between 10°C and 30°C in a well ventilated area. Our products are guaranteed in their original packaging (check expiry date on the label).

HEALTH & SAFETY

Skin contact must be avoided by wearing protective nitrile gloves & overalls or other protective clothing.
Eye protection should be worn to avoid risk of resin, hardener, solvent or dust entering the eyes. If this occurs flush the eye with water for 15 minutes, holding the eyelid open, and seek medical attention.
Ensure adequate ventilation in work areas. Respiratory protection should be worn with ABEKP coded filters.
Resoltech issues full Material Safety Data Sheet for all hazardous products. Please ensure that you have the correct MSDS to hand for the materials you are using before commencing work.

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